



1998 Toxics Release Inventory

CALIFORNIA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	32,580,331	30,025,356	62,605,687
Air Emissions	26,782,830	1,379,872	28,162,702
Surface Water Discharges	3,854,111	630	3,854,741
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	81,905	0	81,905
On-site Land Releases to RCRA Subtitle C Landfills	17,224	19,813,437	19,830,661
Other On-site Land Releases	1,844,261	8,831,417	10,675,678
Off-site Releases (Transfers Off-site to Disposal)*	7,835,671	249,020	8,084,691
Total On- and Off-site Releases	40,416,002	30,274,376	70,690,378
Recycled On-site	41,450,940	2,380,604	43,831,544
Recycled Off-site	79,640,702	1,247,695	80,888,397
Energy Recovery On-site	27,993,472	6	27,993,478
Energy Recovery Off-site	10,022,282	8,209,894	18,232,176
Treated On-site	77,512,667	10,832,272	88,344,939
Treated Off-site**	20,306,906	1,414,284	21,721,190
Quantity Released On- and Off-site***	43,049,212	30,709,140	73,758,352
Total Production-related Waste Managed	299,976,181	54,793,895	354,770,076
Total Non-production-related Waste Managed	175,937	103,077	279,014

Transfers Off-site for Further Waste Management/Disposal

Recycling	71,445,564	1,317,758	72,763,322
Energy Recovery	9,062,743	8,145,814	17,208,557
Treatment	5,123,883	1,566,177	6,690,060
Publicly Owned Treatment Works (POTWs)	17,239,154	90,746	17,329,900
Metals and Metal Compounds*	115,447	756	116,203
Non-metal TRI Chemicals**	17,123,707	89,990	17,213,697
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	9,884,551	276,579	10,161,130
Total Transfers Off-site for Further Waste Management/Disposal	112,755,895	11,397,074	124,152,969

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

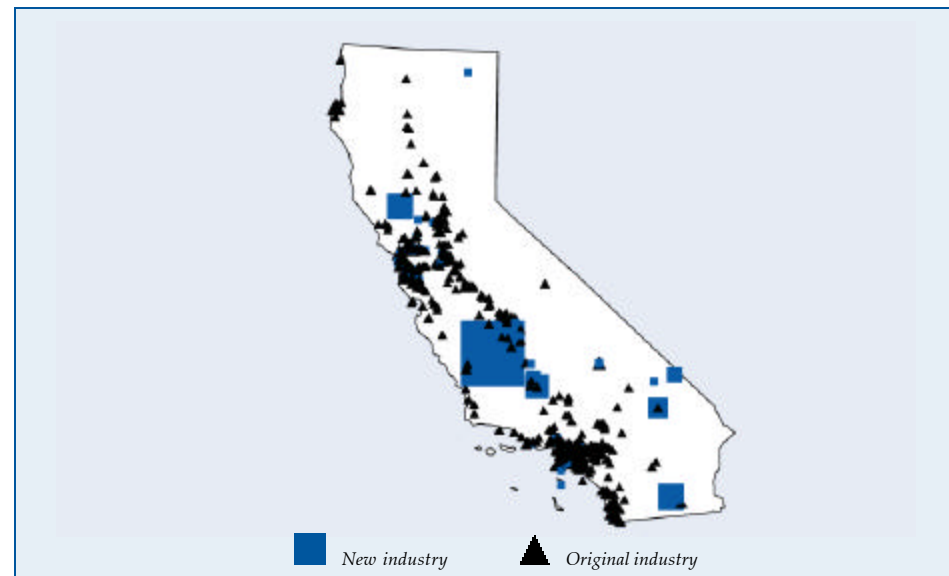
**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:
California EPA
(916) 324-3421
Fax: (916) 324-1788

EPA Regional Contact:
Adam Browning
(415) 744-1121
Fax: (415) 744-1073

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):
(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of California. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	32,666,550
Square Miles	155,973
Total Facilities	1,499
Total Forms	4,650
Form As	737

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	21	25	26
Pounds	40,416,002	30,274,376	70,690,378
National Rank for Total On-site Releases**			
Rank	21	25	27
Pounds	32,580,331	30,025,356	62,605,687
National Rank for Total Releases within State**			
Rank	23	25	27
Pounds	36,120,758	30,236,664	66,357,422
National Rank for Production-related Waste Managed			
Rank	25	25	25
Pounds	299,976,181	54,793,895	354,770,076

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	6,856,223	38,522	37,000	670,120	6,946	7,608,811	58	2,299	4,900
67-56-1	Methanol	2,821,208	1,234,238	12,000	29,031	9,093	4,105,570	0	1,431	7,662
100-42-5	Styrene	2,692,805	0	0	0	4,480	2,697,285	0	4,122	358
—	Lead compounds	12,633	623	0	0	2,677,858	2,691,114	356	918,662	2,244,253
—	Nitrate compounds	2,711	2,461,036	0	116,678	9,465	2,589,890	0	8,996	469
—	Glycol ethers	1,713,367	0	0	821	9,817	1,724,005	14,000	8,817	1,000
108-88-3	Toluene	1,165,917	433	500	53	2,372	1,169,275	152	1,063	1,309
110-54-3	n-Hexane	1,018,808	97	500	32	50	1,019,487	0	50	0
75-09-2	Dichloromethane	949,113	2	0	0	7,425	956,540	0	7,397	28
7439-92-1	Lead	1,117	16	0	11	938,115	939,259	22	97,286	881,674

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
1344-28-1	Aluminum oxide (fibrous forms)	5	0	0	4,177,170	0	4,177,175	0	0	0
1332-21-4	Asbestos (friable)	5	0	0	3,806,143	0	3,806,148	0	0	0
—	Lead compounds	2,104	0	0	3,691,317	13,685	3,707,106	6,758	755	12,930
—	Manganese compounds	1,005	0	0	2,811,783	0	2,812,788	0	0	0
7440-38-2	Arsenic	53	0	0	2,351,964	8	2,352,025	0	8	0
1336-36-3	Polychlorinated biphenyls (PCBs)	5	0	0	1,691,574	0	1,691,579	0	0	0
7440-39-3	Barium	2,090	1	0	1,683,027	3,449	1,688,567	0	3,194	255
—	Nickel compounds	291	0	0	1,420,664	250	1,421,205	41,161	3,000	250
—	Zinc compounds	1,605	7	0	1,163,119	269	1,165,000	72,050	14	255
—	Nitrate compounds	10	0	0	1,068,068	58,760	1,126,838	0	58,760	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Exxon Co. USA Benicia Refy., Benicia, Solano	977,553	770,947	0	0	0	0	1,748,500	13,578	4,824
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	371,355	1,236,010	0	0	0	0	1,607,365	0	0
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	871,956	295,810	0	0	0	0	1,167,766	58,692	99,696
Mobil Torrance Refy., Torrance, Los Angeles	1,166,779	157	0	0	0	0	1,166,936	11,174	6
Chevron USA Prods. Co., El Segundo, Los Angeles	673,961	467,403	0	0	0	138	1,141,502	23,485	1,054
Equilon Martinez Refining Co., Martinez, Contra Costa	312,451	762,894	0	0	0	0	1,075,345	17,181	0
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	1,050,770	21,888	0	0	0	0	1,072,658	8,065	1
IMC Chemicals Inc., Trona, San Bernardino	352,121	0	0	0	0	471,491	823,612	0	0
Carpenter Co., Lathrop, San Joaquin	742,155	0	0	0	0	0	742,155	0	0
New United Motor Mfg. Inc., Fremont, Alameda	639,855	0	0	0	0	0	639,855	1,000	32,255

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chemical Waste Management Inc., Kettleman City, Kings	7,944	0	0	0	12,503,177	6	12,511,127	760	2,785
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	161	0	0	0	4,076,110	0	4,076,271	33	0
McLaughlin Mine, Lower Lake, Lake	45,111	0	0	0	0	3,889,836	3,934,947	0	0
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	8,050	0	0	0	3,234,150	308,750	3,550,950	25	0
CR Briggs Corp., Ballarat, San Bernardino	21,000	0	0	0	0	2,800,000	2,821,000	0	0
Molycorp Inc., Mountain Pass, San Bernardino	6,775	0	0	0	0	1,679,784	1,686,559	0	12,670
Ace Cogeneration Facility, Trona, San Bernardino	128,400	0	0	0	0	86,000	214,400	0	0
Glamis Rand Mine, Randsburg, Kern	195,629	0	0	0	0	0	195,629	0	0
POSDEF Power Co. L.P., Stockton, San Joaquin	29,154	4	0	0	0	61,300	90,458	6	0
Viceroy Gold Corp. Castle Mountain Mine, Ivanpah, San Bernardino	87,967	0	0	0	0	0	87,967	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Quemetco Inc., City of Industry, Los Angeles	0	0	0	0	0	0	4,110,000	4,110,000	11,110
Exxon Co. USA Benicia Refy., Benicia, Solano	1,100	129,136	20,700,000	0	289,000	8,719	1,756,460	22,884,415	0
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	0	151,863	0	0	669,050	0	1,324,420	2,145,333	6,920
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	0	0	2,017,000	0	0	0	1,318,610	3,335,610	0
Mobil Torrance Refy., Torrance, Los Angeles	1,241,274	36,231	0	5,800	3,525,646	528,859	1,176,818	6,514,628	0
Chevron USA Prods. Co., El Segundo, Los Angeles	0	6,821	0	0	1,001,000	1,802	1,155,557	2,165,180	4,784
Equilon Martinez Refining Co., Martinez, Contra Costa	0	3,732	251	0	7,508,782	0	1,152,074	8,664,839	1,141
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	0	8,880	0	0	87,600	1,266	1,081,673	1,179,419	949
Precision Specialty Metals Inc., Los Angeles, Los Angeles	0	0	0	0	1,055,312	245	843,305	1,898,862	0
IMC Chemicals Inc., Trona, San Bernardino	0	0	0	0	0	10	823,612	823,622	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Chemical Waste Management Inc., Kettleman City, Kings	0	585	0	10	0	20,271	12,509,563	12,530,429	0
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	0	0	0	0	0	0	4,076,306	4,076,306	0
McLaughlin Mine, Lower Lake, Lake	0	0	0	0	6,353,773	0	3,934,947	10,288,720	13
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	0	0	0	0	0	5	3,550,100	3,550,105	15
CR Briggs Corp., Ballarat, San Bernardino	0	46,000	0	0	0	0	2,819,770	2,865,770	3
Molycorp Inc., Mountain Pass, San Bernardino	9,908	41,436	0	0	0	12,670	1,686,071	1,750,085	0
Rho-Chem Corp., Inglewood, Los Angeles	80,000	0	0	391,021	0	0	655,220	1,126,241	0
Glamis Rand Mine, Randsburg, Kern	0	0	0	0	19,415	0	195,629	215,044	0
Safety-Kleen (Los Angeles) Inc., Los Angeles, Los Angeles	0	45,542	0	0	121,041	64,499	107,468	338,550	0
Stockton Cogen Co., Stockton, San Joaquin	0	0	0	0	0	0	98,984	98,984	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.